WORKSHOP ON
MEDIA STREAMING MEETS 5G

Portland, Dec 9-10, 2019

Iraj Sodagar (irajsodagar@tencent.com, irajs@live.com)

Tencent America

DASH-IF President

SCHEDULE

- Workshop Sessions:
  - Monday, Dec 9: 1 PM- 6 PM
  - Tuesday, Dec 10: 9 AM -1 PM

- Networking Event: Monday, Dec 9, 7:00 PM- 8:30 PM

- DASH-IF IOP Pre-Meeting: Dec 10, 2PM - 6PM

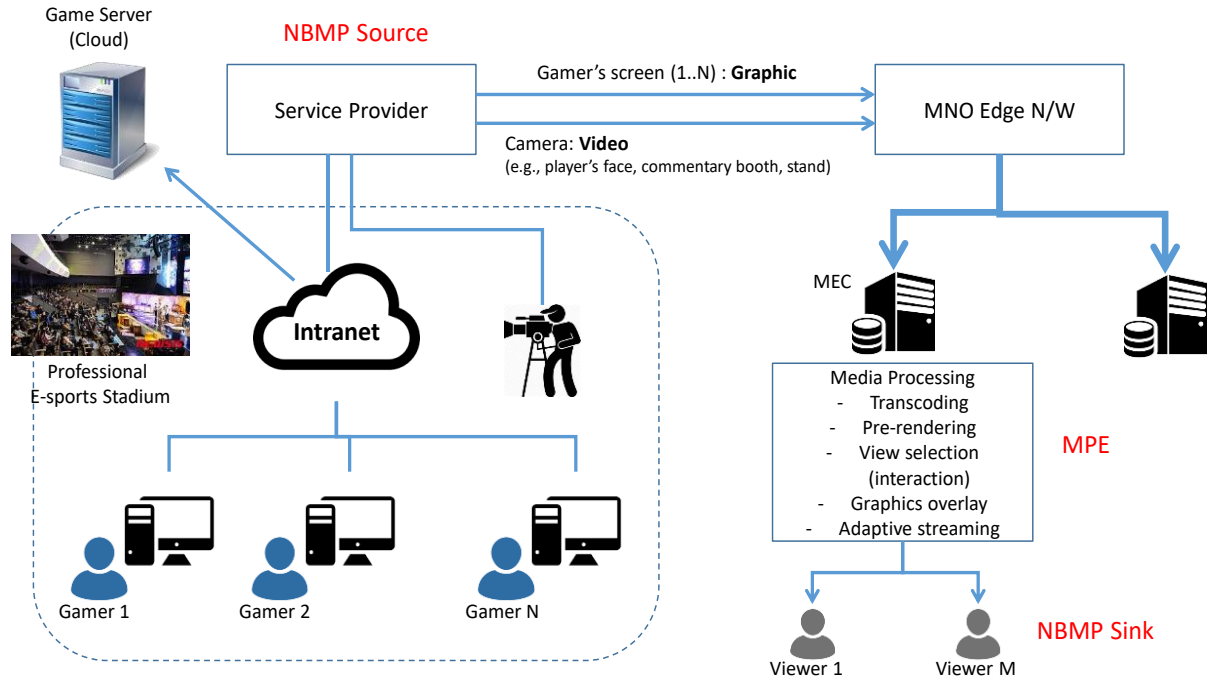- DASH-IF 22nd Regular Meeting: Dec 11, 9PM - DEC 12, 5PM

PROGRAM-1 (MONDAY)

12.30	Registration
1.00	Welcome (Iraj Sodagar, Tencent)
	Introductory Talks (30 mins + 10 mins questions)
1.10	Overview of 5G Systems and Technology (Thomas Stockhammer, Qualcomm)
1.50	Overview of User Studies/Analysis (Amir Gomroki, Ericsson)
	Deep Dives (5 mins introduction plus 25 mins interactive discussion)
2.30	New codecs (Thierry Fautier, Harmonic)
3.00	Coffee
3.30	Content-Aware Encoding (Yuriy Reznik, Brightcove)
4.00	Low-Latency streaming challenges and opportunities (Nicolas Weil, AWS Elemental)
4.30	Impact of new protocols (Ali Begen, Comcast)
5.00	Ingest technologies (Imed Bouazizi, Qualcomm)
5.30-6.00	Ad Insertion (Iraj Sodagar, Tencent)
7.00-8.30	Networking event at Rouge Hall

PROGRAM-2 (TUESDAY)

8.30	Coffee
	Introductory Talk (30 mins + 10 mins questions)
9.00	Overview of latest Media Streaming Developments (John Simmons, Microsoft)
	Deep Dives (5 mins introduction plus 25 mins interactive discussion)
9.40	Content Protection (Laurent Piron, Nagra)
10.10	Coffee
10.30	Broadcast/multicast and hybrid delivery (Thomas Stockhammer, Qualcomm)
11.00	Cloud computing, edge computing, and media on cloud (Imed Bouazizi, Qualcomm)
11.30	AR/VR/MR and other interactive applications (Thierry Fautier, Harmonic, Emmanuel Thomas)
12.00	Device platform diversity and hybrid DASH/HLS (Cedric Thienot, Enesys)
12.30-1.00	Workshop Summary (Iraj Sodagar, Tencent)

5G E-Sports Streaming

Mission & Goal

- Goal: Identify the challenges and possible gaps for fully taking advantage of 5G networks for multimedia streaming and related applications

- Approach: Let's discuss the real issues rather than listen to presentations
    1. *Ask the hard questions*
    2. *Bring up the real challenges*
    3. *Pose possible (technical and non-technical) opportunities*

WIFI access & Group Notes

- WIFI:
  - access point: Guest
  - password: *BrokenWires@@2019*

- Google Doc:
  - http://tinyurl.com/dash-if-5g
  - All participants are welcomed to add their comments in real time during the discussion.

Thanks to…

- Organizing Committee
  - Per Fröjdh
  - Thomas Stockhammer
  - Will Law
  - Nicolas Weil
  - John Simmons
  - Thierry Fautier
  - Angela Hardy
  - Iraj Sodagar

- Our Host
  - **AWS Elemental**
    - Nicolas Weil

Networking Event: Rouge Hall @7PM

- Address: The Vue Apartments, 1717 SW Park Ave, Portland, OR 97201